

Virgin Islands Water and Power Authority Innovative Clean Energy Solutions For Island Communities

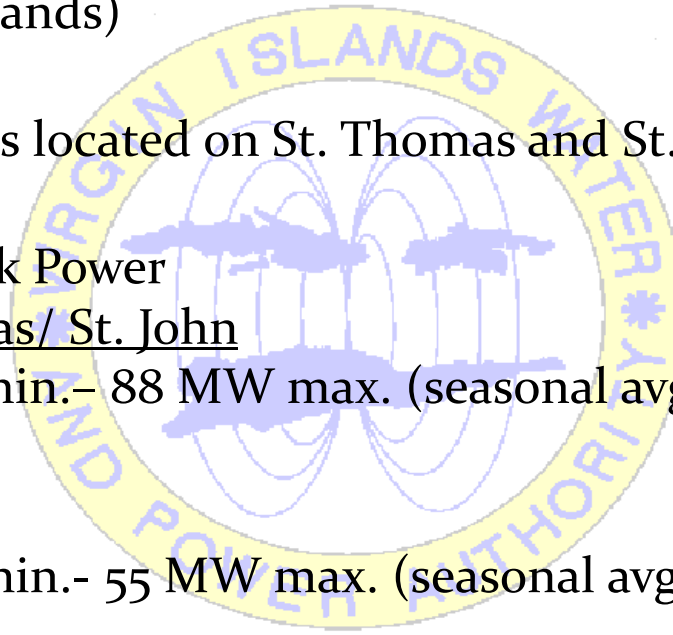
**Presented by: Hugo V. Hodge, Jr. CPQ
Executive Director/CEO**

**Asia Pacific Clean Energy Summit
August 15, 2012**



WAPA Background

- Government-owned/public utility
- Primary source of water & power production in the Territory (U.S. Virgin Islands)
- Major facilities located on St. Thomas and St. Croix
- Territorial Peak Power
 - St. Thomas/ St. John
45 MW min.- 88 MW max. (seasonal avg.)
 - St. Croix
30 MW min.- 55 MW max. (seasonal avg.)
- Power Generation Capability --(100 % fuel oil)
 - St. Thomas/ St. John --198 MW
 - St. Croix --118 MW



WAPA Background-cont'd

- Water Production –
Israel Desalination Engineering (IDE) & Reverse
Osmosis Plants

Capacity

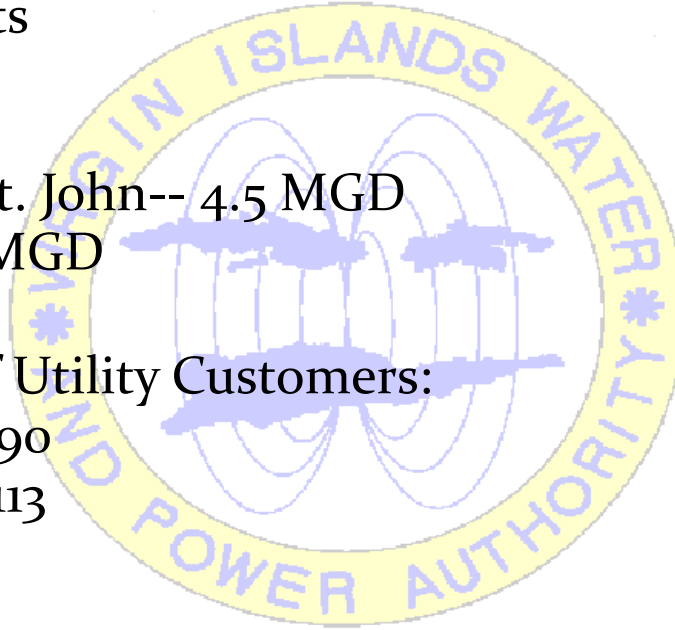
St. Thomas/ St. John-- 4.5 MGD

St. Croix-- 5.1 MGD

- Total Number of Utility Customers:

Water - 12,390

Electric - 54,113



WAPA Background (cont'd)

➤ Fiscal Year 2011 Operating Expense

\$ 283,609,197

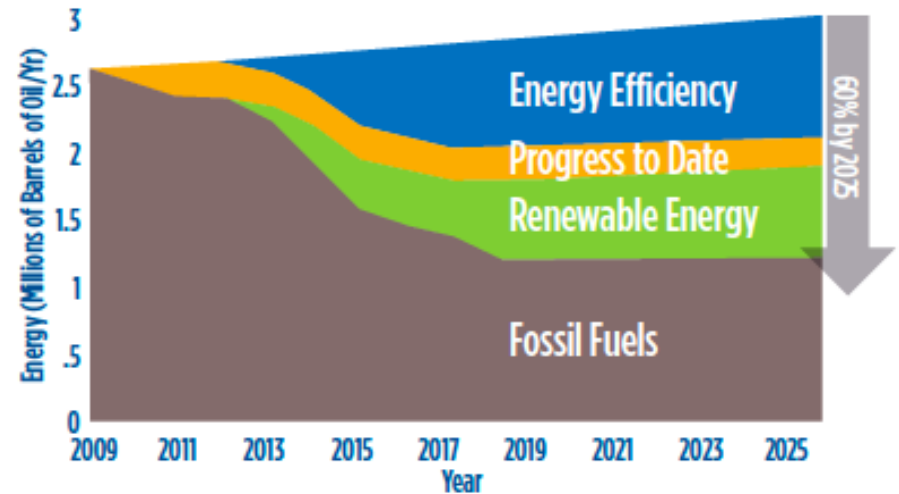
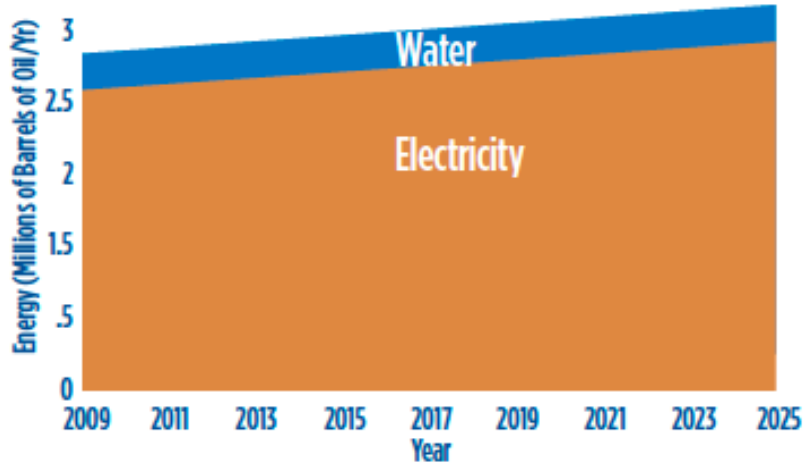
-\$199,488,025- Fuel Oil Cost @Tax Incentive Pricing

-70% Fiscal Year 2011 Operating Expense

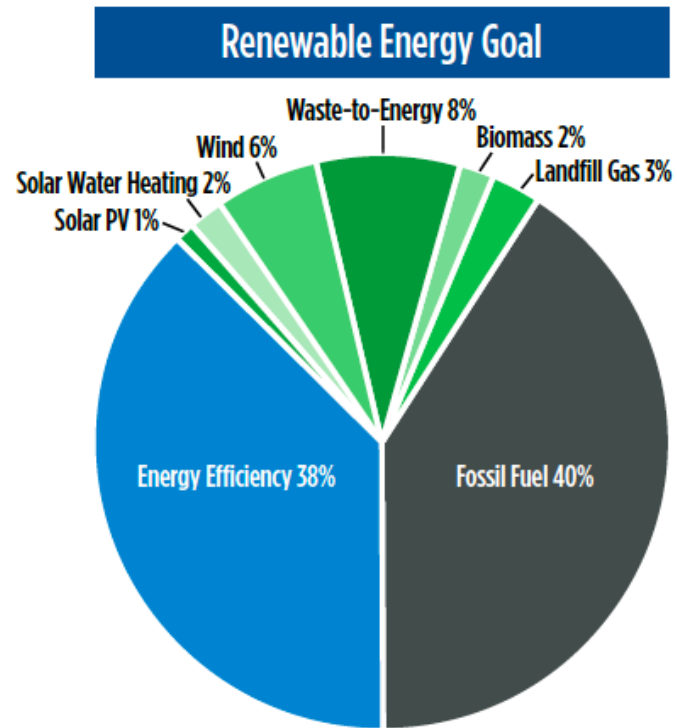


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Business as Usual vs. 60% by 2025

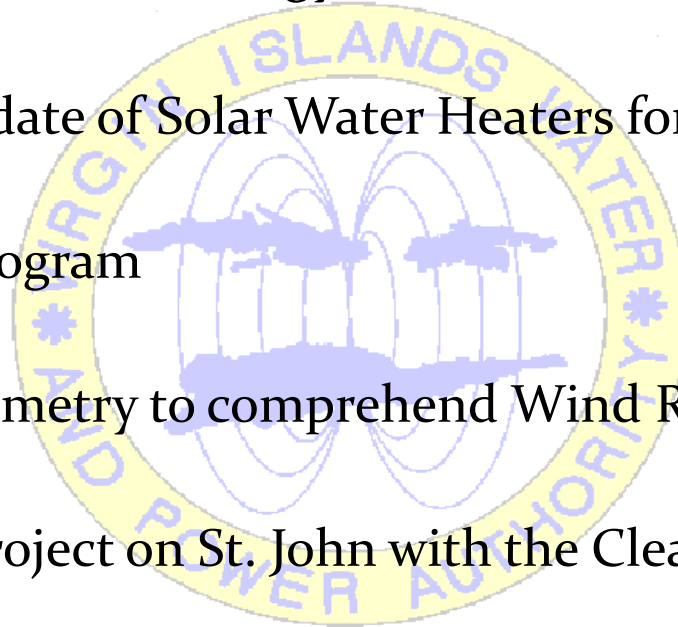


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Clean Energy Initiatives

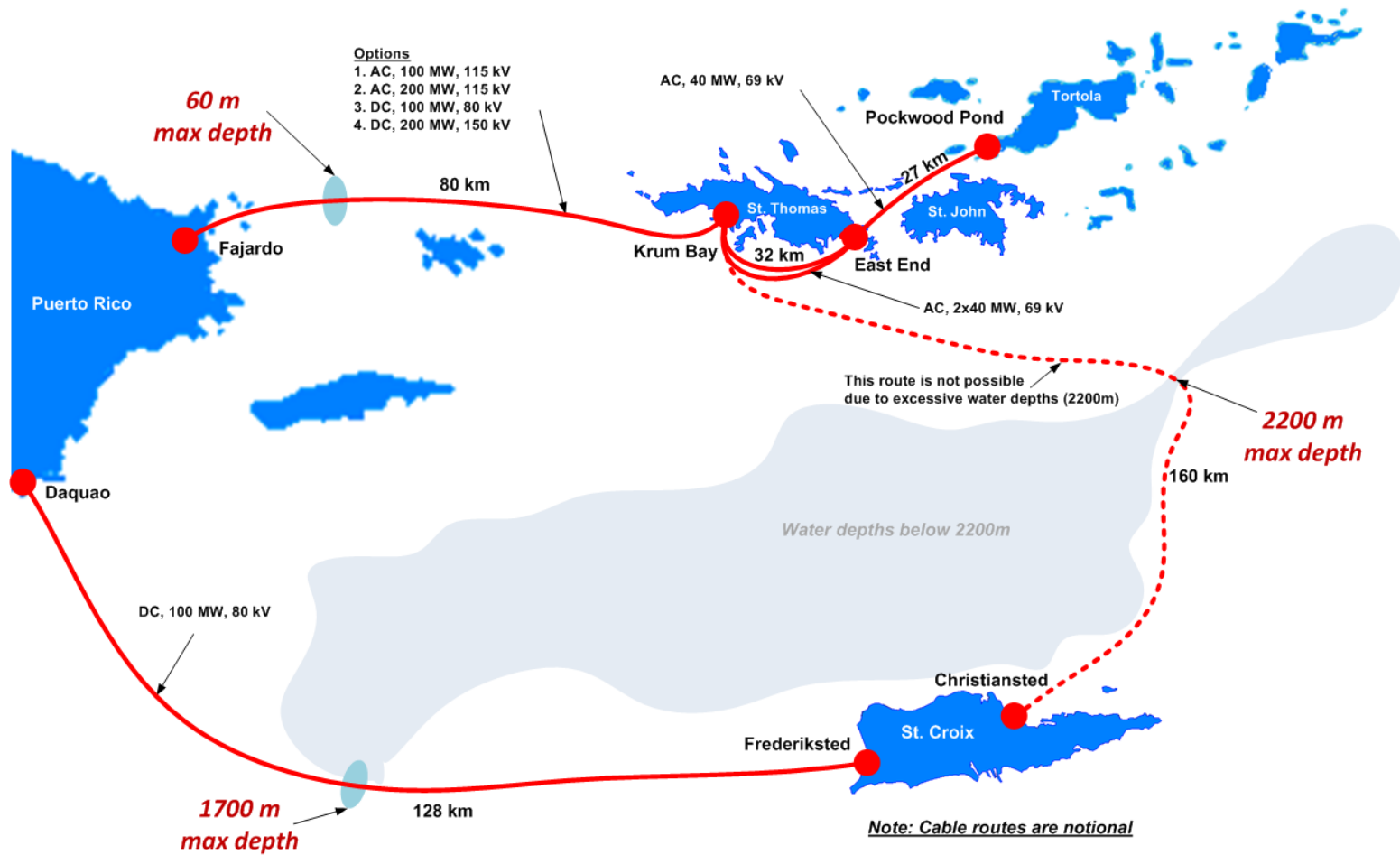
- 6 Signed PPA's for Solar Energy (Over 18 MWs)
- Legislative mandate of Solar Water Heaters for New Construction
- Net metering program
- Erecting Anemometry to comprehend Wind Resource
- Micro-system project on St. John with the Clean Coalition



Clean Energy Initiatives (cont'd)

- Landfill Gas project
- Exploration of Waste to Energy opportunities
- Analysis of Anaerobic Digestion System using King Grass
- Interconnection with Puerto Rico via Submarine Cable

VI-Puerto Rico Interconnection



Energy Efficiency Initiatives

- Initiation of Energy Efficiency Business Unit
- Installation of 1000 LED Street Lights
- Reverse Osmosis Water Systems
- HRSG Unit at St. Croix Facility



Questions?

